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RACEffective on 10/01/2004. Patent fees are subject to annual revision.		Complete if Ki	nown	
	Application Number	09/896,132		-
FEE TRANSMITTAL	Filing Date	June 29, 200)1	
For FY 2005	First Named Inventor	Stephen R. k	Cennon	
Applicant claims small entity status. See 37 CFR 1.27	Examiner Name	Russell W. F	rejd	
	Art Unit	2128	 	
TOTAL AMOUNT OF PAYMENT (\$) 180.00	Attorney Docket No.	1048-OBJ11	13-US	
METHOD OF PAYMENT (check all that apply)	FEE CA	LCULATION (continued)	•
Check Credit Card Money Order	2. EXTRA CLAIM	FEES		Small Entity
Deposit Account None	Fee Description Each claim over 20 Each independent claim	aim over 3	<u>Fee (\$)</u> 18 88	
Deposit	Multiple dependent		300	150
Account Number 50-2469	For Reissues, each c			
Deposit Account TOLER, LARSON & ABEL, LLP	more than in the or For Reissues, each in		18 im	9
Name	more than in the or		88	44
The Director is hereby authorized to: (check all that apply)	Total Claims	Extra Claims	Fee (\$) F	ee Paid (\$)
Charge fee(s) indicated below	- 20 or HF HP = highest number of		x = =	20
Charge fee(s) indicated below, except for the filing fee	Indep. Claims	Extra Claims		Fee Paid (\$)
Charge any additional fee(s) or underpayments of fee(s)			x=	
under 37 CFR 1.16 and 1.17	HP = highest number of	independent claims	paid for, if great	er than 3
Credit any overpayments	Multiple Dependent C	<u>laims</u>	Fee (\$)	Fee Paid (\$)
to the above-identified deposit account.		Subtotal	(2) \$ <u>0.00</u>	
Other (please identify):	3. OTHER FEES		Small Entity	,
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.	Fee Description 1-month extension of the	Fee (\$		Fee Paid(\$)
FEE CALCULATION	2-month extension of the	me 430	215	<u> </u>
1. BASIC FILING FEE	3-month extension of ti	me 980	490	
Small Entity	4-month extension of the	me 1,530	765	
Fee Description Fee (\$) Fee Paid(\$)	5-month extension of ti	me 2,080	1,040	
Utility Filing Fee 790 395	Information disclosure	stmt. fee 180	180	180.00
	37 CFR 1.17(q) proces	sing fee 50	50	
Design Filing Fee 350 175	Non-English specificat	ion 130	130	
Plant Filing Fee 550 275	Notice of Appeal	340	170	
Reissue Filing Fee 790 395	Filing a brief in suppor		170	
Provisional Filing Fee 160 80	Request for oral hearin Other:	g 300	150	
Subtotal (1) \$ 0.00		Subtota	ıl (3) \$_ ¹⁸⁰	0.00
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SUBMITTED BY Signature	Registration No. 50 776	Tele	phone 512-3	27_5515
Orginature (IL Will)	(Attorney/Agent) 50,776	Date		
Name (Print/Type John R. Schell		Date	03/21/200	סו

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Stephen R. Kennon, et al.

Title:

FEATURE MODELING IN A FINITE ELEMENT MODEL

Application No.: 09/896,132

Filed:

June 29, 2001

Examiner:

Russell W. Frejd

Group Art Unit: 2128

Atty. Docket No.: 1048-OBJ1113-US

MS AMENDMENT **COMMISSIONER FOR PATENTS**

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03/25/2005 BABRAHA1 00000054 502469

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Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the undersigned brings the patents, publications, applications or other information identified in the attached:

\boxtimes	Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/144	49
	Other: n/a	

to the Examiner's attention in the above-identified application. Citation of such information shall not be construed as:

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- an admission that the information cited herein is, or is considered to be, material 3. to patentability as defined in § 1.56(b).

For each item of information listed that is not in the English language, the undersigned has provided a concise explanation of the relevance, such as through (i) an English language abstract, (ii) an English language equivalent application, (iii) reference to discussion in the application, or (iv) if cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action that indicates the degree of relevance found by the foreign office.

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STATEMENT UNDER 37 C.F.R. § 1.704(d)

May 29		bove-identified application is an original application filed on or after
		each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement.
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•		within three months of the filing date of a national application or within three months of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is required.
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Should any PTO fees be necessary for entry of this Information Disclosure Statement, the undersigned hereby authorizes the Commissioner to charge Deposit Account <u>50-2469</u>.

	3.21905	
Date		

Respectfully submitted,

John R. Schell, Reg. No. 50,776 Agent for Applicant(s) TOLER, LARSON & ABEL, L.L.P. 5000 Plaza On The Lake, Suite 265 Austin, Texas 78746 (512) 327-5515 (phone) (512) 327-5452 (fax)

PTO/SB/08A (08-03)

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Complete if Known

09/896,132

2128

June 29,2001

Stephen R. Kennon

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Filing Date

Art Unit

Application Number

First Named Inventor

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Examiner Name Russell W. Frejd Attorney Docket Number 1048-OBJ1113-US

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (# known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	^{US-} 3,029,018	04/10/1962	Floyd, Jr.	
	B1	^{US-} 3,302,710	02/07/1967	Odeh	
•	C1	US- 4,821,164	04/11/1989	Swanson	
	D1	^{US-} 5,255,212	10/19/1993	Kondoh et al.	
	E1	^{US-} 5,432,718	07/11/1995	Molvig et al.	
	F1	^{US-} 5,572,634	11/05/1996	Duluk, Jr.	
	G1	^{US-} 5,604,911	02/18/1997	Ushiro	
	H1	US- 5,617,322	04/01/1997	Yokota	
	11	^{US-} 5,675,521	10/07/1997	Holzhauer et al.	
	J1	^{US-} 5,699,271	12/16/1997	Sagawa et al.	
	K1	^{US-} 5,710,726	01/20/1998	Rowney et al.	
	L1	^{US-} 5,740,342	04/14/1998	Kocberber	
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	N1	US- 5,891,131	04/06/1999	Rajan et al.	
	01	US- 5,966,524	10/12/1999	Burnett et al.	
	P1	^{US-} 6,014,473	01/11/2000	Hossack et al.	
	Q1	^{US-} 6,018,497	01/25/2000	Gunasekera	
	R1	^{US-} 6,028,607	02/22/2000	Chan	
	S1	US- 6,041,017	03/21/2000	Goldsberry	

		FORE	IGN PATENT DOCU	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
 		Country Code ³ "Number ⁴ "Kind Code ⁵ (if known)				
	T1	EP 0 709 789 A2	05/01/1996			\Box
	U1	EP 0 801 364 B1	07/30/2003	1	English Abstract	
	V1	FR 2,775,094	08/20/1999		English Abstract	
	W1	GB 2,326,747 A	12/30/1998			
	X1	WO 99/40532	08/12/1999			
	Y1	WO 99/52048	10/14/1999			

Examiner	· · · · · · · · · · · · · · · · · · ·	 Date	
Signature		Considered	

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Sheet 2

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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 Complete if Known

 Application Number
 09/896,132

 Filing Date
 June 29, 2001

 First Named Inventor
 Stephen R. Kennon

 Art Unit
 2128

 Examiner Name
 Russell W. Frejd

 Attorney Docket Number
 1048-OBJ1113-US

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear
	40	Number-Kind Code ² (# known)			rigares / ppea/
	A2	^{US-} 6,052,520	04/18/2000	Watts, III	
	B2	^{US-} 6,054,992	04/25/2000	Gibson	
	C2	^{US-} 6,064,810	05/16/2000	Raad et al.	
	D2	^{US-} 6,070,125	05/30/2000	Murphy et al.	
	E2	^{US-} 6,078,869	06/20/2000	Gunasekera	
	F2	^{US-} 6,106,561	08/22/2000	Farmer	
	G2	^{US-} 6,191,796 B1	02/20/2001	Tarr	
	H2	^{US-} 6,313,837 B1	11/06/2001	Assa et al.	
	12	^{US-} 6,445,390 B1	09/03/2002	Aftosmis et al.	
	J2	^{US-} 6,448,788 B1	09/10/2002	Meaney et al.	
	K2	^{US-} 6,516,080 B1	. 02/04/2003	Nur	
	L2	^{US-} 6,552,724 B1	04/22/2003	Marshall	
	M2	^{US-} 6,587,104 B1	07/01/2003	Норре	
	N2	^{US-} 6,608,628 B1	08/19/2003	Ross et al.	
	02	US- 6,674,432 B2	01/06/2004	Kennon et al.	
	P2	US- 5,553,009	09/03/1996	Meshkat et al.	
	Q2	^{US-} 5,999,187	12/07/1999	Dehmlow et al.	
	R2	^{US-} 6,816,820 B1	11/09/2004	Friedl et al.	
	S2	US- 2002/0032494 A1	03/14/2002	Kennon et al.	

		FOREI	GN PATENT DOCU	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T ⁶
	T2	WO 99/57418	11/11/1999			
	U2	WO 02/01251 A2	01/03/2002			
	V2	WO 02/02901 A2	01/10/2002	1		
	W2	WO 02/03101 A2	01/10/2002			
	X2	WO 02/03103 A2	01/10/2002			
	Y2	WO 02/03262 A2	01/10/2002			

Examiner	Date	
Signature	Considered	

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Complete if Known			
Application Number	09/896,132		
Filing Date	June 29, 2001	_	
First Named Inventor	Stephen R. Kennon		
Art Unit	2128		
Examiner Name	Russell W. Frejd		
Attorney Docket Number	1048-OBJ1113-US		

				DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (# known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A3	^{US-} 2002/0032550 A1	03/14/2002	Ward et al.	
	В3	^{US-} 2002/0035453 A1	03/21/2002	Pond, Jr. et al.	
	СЗ	US- 2002/0046014 A1	04/18/2002	Kennon	
	D3	^{US-} 2002/0067373 A1	06/06/2002	Roe et al.	
	E3	^{US-} 2002/0072883 A1	06/13/2002	Lim et al.	
	F3	^{US-} 2002/0082813 A1	06/27/2002	Lim et al.	
	G3	US-			
	НЗ	US-			
	13	US-			
	J3	US-			
	K3	US-			
	L3	US-			
	МЗ	US-			
	N3	US-			
	О3	US-			
	P3	US-			
	Q3	US-			
	R3	US-			
	S3	US-			

		FOREIC	GN PATENT DOCU	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T ⁶
	T3	WO 02/03263 A2	01/10/2002			
	U3	WO 02/03264 A2	01/10/2002			
	V3	WO 02/03265 A2	01/10/2002			
	W3					
	Х3					
	Y3					

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Jubstitu	te lor loriii 1443/i 10			Application Number	09/896,132
INF	ORMATION	DIS	CLOSURE	Filing Date	June 29, 2001
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Stephen R. Kennon
	(Use as many she	vate se n	ocasean)	Art Unit	2128
	(USB as many sne	eta aa 11	ecessary)	Examiner Name	Russell W. Frejd
Sheet	4	of	6	Attorney Docket Number	1048-OBJ1113-US

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	A4	P.A. Forsyth, et al., "Local Mesh Refinement and Modeling of Faults and Pinchouts", SPE FORM EVALUATION, June 1986, Vol. 1, No. 3, pages 275-285. XP-002191830	
	B4	Y. Ding, et al., "Developement of Dynamic Local Grid Refinement in Reservoir Simulation", Proceedings of the 13th SPE Symposium on Reservoir Simulation, New Orleans, LA, February-March 1993, pages 501-510. XP-002191831	
	C4	S. Verna, et al., "A Control Volume Scheme for Flexible Frids in Reservoir Simulation", Proceedings of the 1997 SPE Reservior Simulation Symposium, Dallas, TX, June 1997, pages 215-227. XP-002191832	
	D4	S. Kocberber, et al., "An Automatic, Unstructured Control Volume Generation System for Geologically Complex Reservoirs", Proceedings of the 1997 SPE Reservior Simulation Symposium, Dallas, TX, June 1997, pages 241-252. XP-002191833	
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	F4	R. Page, et al., "A Functional Program Describing a Simple Reservoir Model and Its Potential for Parallel Computation", Proceedings of the 1990 Symposium on Applied Computing, IEEE, April 1990, pages 85-91.	
	G4	C. Giertsen, et al., "Volume Visulization of Sparse Irregular Meshes", Computer Graphics and Applications, IEEE, Vol. 2, No. 2, March 1992, pages 40-48.	
	H4	S. Ghosh, "Curvilinear Local Grid Refinement", SPE 50633, SPE European Petroleum Conference, The Netherlands, 20-22 October, 1998.	
	14	H. N. Sharpe, et al., "A New Adaptive Orthogonal Grid Generation Procedure for Reservoir Simulation" 65th Annual Technical Conference and Exhibition of the Society of Petroleum Engineers, New Orelans, LA, September 23-26, 1990.	
	J4	M. Wheeler, et al., "A Parallel Multiblock/Multidomain Approach for Reservoir Simulation", Proceedings of the 1999 15th Symposium on Reservoir Simulation, Houston, TX, February 1999. XP-002188857	

Examiner	Date	
Signature	Considered	

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¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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Cubstinu	10 101111 144011 10			Application Number	09/896,132	
INF	ORMATION	DIS	CLOSURE	Filing Date	June 29, 2001	
STATEMENT BY APPLICANT				First Named Inventor	Stephen R. Kennon	
	(Use as many she	ate se n	acassan)	Art Unit	2128	
	(OSE as many sine	cis as n	ecessary)	Examiner Name	Russell W. Frejd	
Sheet	5	of	6	Attorney Docket Number	1048-OBJ1113-US	

		NON PATENT LITERATURE DOCUMENTS	
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	A5	D. Kahaner, et al., "An Expreimental Algorithm for N-Dimensional Adaptive Quadrature", ACM Transactions on Mathematical Software (TOMS), March 1979, pages 86-96.	
	B5	Y. Ozdogan, "Seismic Data Processing", Society of Exploration Geophysics, Tulsa, OK, 1991, pg. 514-515.	
	C5	S. Norris, et al., "Modeling Fluid Flow Around Horizontal Wellbores", Proceedings: SPE Annual Technical Conference and Exhibition 1990 Part 4, New Orleans, LA September 23-26, 1990, Vol. SIGMA, pp. 65-75.	
	D5	P. Perrochet, "Finite Hyperelements: A 4D Geometrical Framework Using Coariant Baes and Metric Tensors" COMMUNICATIONS IN NUMBERICAL METHODS IN ENGINEERING, June 1995, UK, vol. 11, no. 6, pgs 525-534	
	E5	J.M.M. Regtien, et al., "Interactive Reservoir Simulation", Proceedings of the 13th Symposium on Reservoir Simulation, San Antonio, TX February 12-15, pgs. 545-552.	
-	F5	C. Buckalew, et al., "Oilfield Visulization on the PC Platform", 2000 SPE/AAPG Western Regional Meeting, June 19-23, 2000, pgs 1-5.	
	G5	E. Farkas, "Linearization Techniques of Reservoir Simulation Equations: Fully Implicit Cases, Proceedigns of the 1997 SPE Reservoir Simulation Symposium, Dallas, Texas June 8-11, 1997, pgs 87-95.	
	H5	E. Farkas, "Linearization Techniques of Reservoir Simulation Equations: Fully Implicit Cases, Richardson, Texas, December 1998, Vol. 3, no. 4, pgs. 316-323.	
	15	P. Benedeck, "Capacitances of Planar Multiconductor Configuration on a Dielectric Substrate by a Mixed Order Finite-Element Method, IEEE1974.	
	J5	Fu, et al., "Time Integration Procedures for a Cyclic Thermoviscoplasticity Model for Pb-Sn solder applications, IEEE 1996.	

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449/PTO **Application Number** 09/896,132 Filing Date INFORMATION DISCLOSURE June 29, 2001 STATEMENT BY APPLICANT **First Named Inventor** Stephen R. Kennon **Art Unit** 2128 (Use as many sheets as necessary) **Examiner Name** Russell W. Frejd Attorney Docket Number Sheet 6 1048-OBJ1113-US 6

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	A6	P. J. Zwart, et al., "Space-Time Meshing for Two-Dimensional Moving Boundary Problems", Proceedings of the Seventh International Meshing Roundtable, pgs 187-199, 1998.		
	В6	S. L. Ho, et al., "Generation and Rotation of 3-D Finite Element Mesh for Skewed Rotor Induction Motors Using Extrusion Technique", IEEE Transactions on Magnetics, pgs 1266-1269, May 1999.		
	C6			
	D6			
	E 6			
	F6			
	G6			
	Н6			
·	16			
	J6			

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